

A HISTORY OF ARCHITECTURE IN 20 WELSH BUILDINGS

Richard Parnaby

January 2019

Why do we require students to study the history of architecture?



Why do architects study history of architecture?

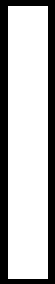


General criterion 2

Adequate knowledge of the histories and theories of architecture and the related arts, technologies and human sciences

The graduate will have knowledge of:

- the cultural, social and intellectual histories, theories and technologies that influence the design of buildings
- the influence of history and theory on the spatial, social, and technological aspects of architecture
- the application of appropriate theoretical concepts to studio design projects, demonstrating a reflective and critical approach.



Pentre Ifan Pembrokeshire


3500 BCE


500 BCE reconstruction


Founded 75AD





2

St Woolos Cathedral Newport


11th century


Durham Cathedral 11th century

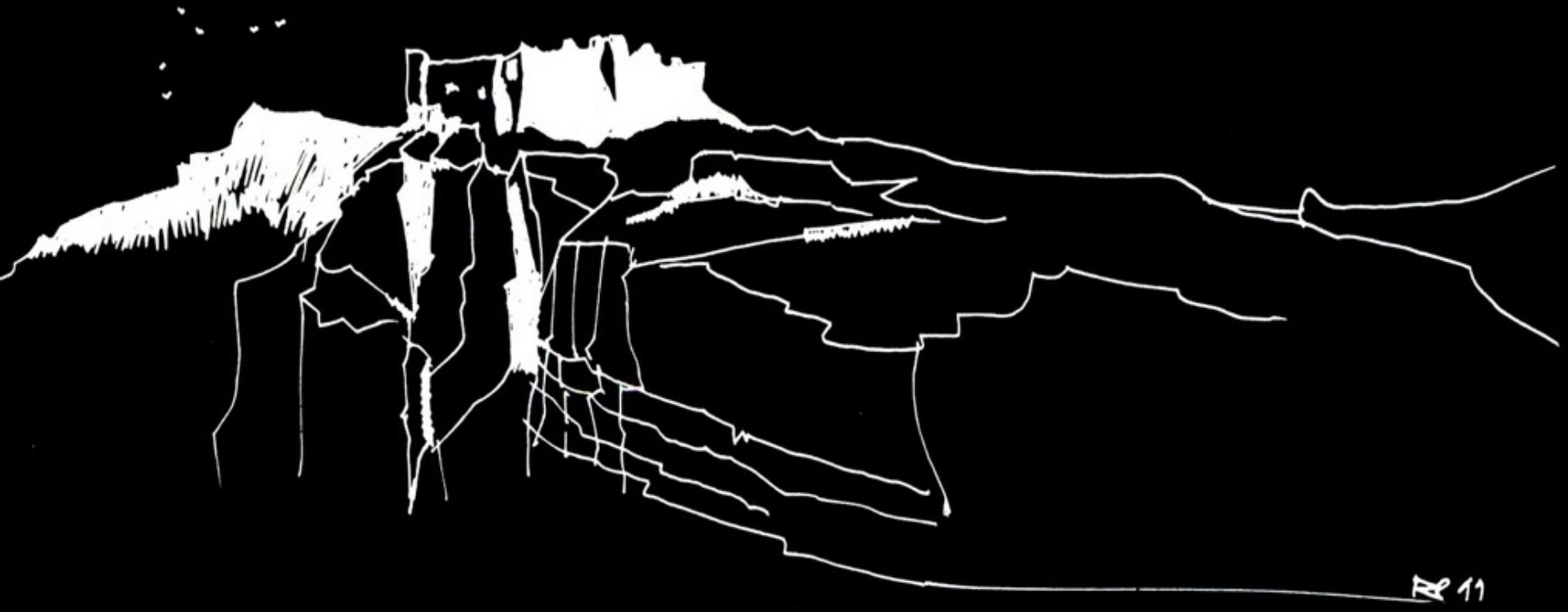

Messina Cathedral 11th century



Mainly 12th century

3

Carreg Cennen Llandeilo




Mainly 12th century




Beaumaris Castle 1282- 1330




Newport Castle 14th century





4

The Longhouse


Cilewent Farmhouse Radnorshire 1470 relocated 1959

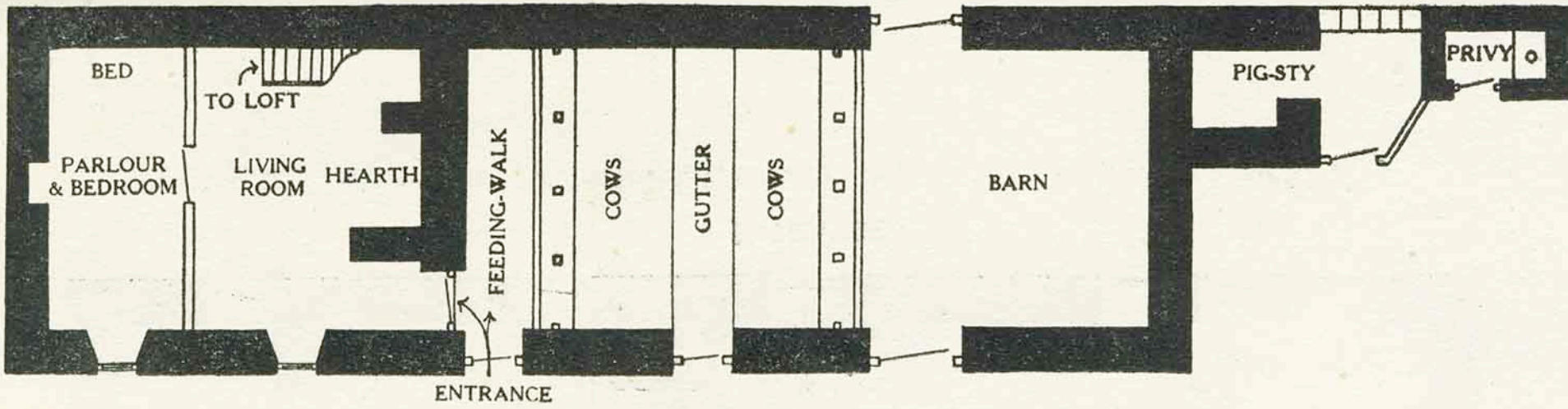


Fig. 8. Lan, Llandeilo, Carmarthenshire : ground plan (length 90 ft.).

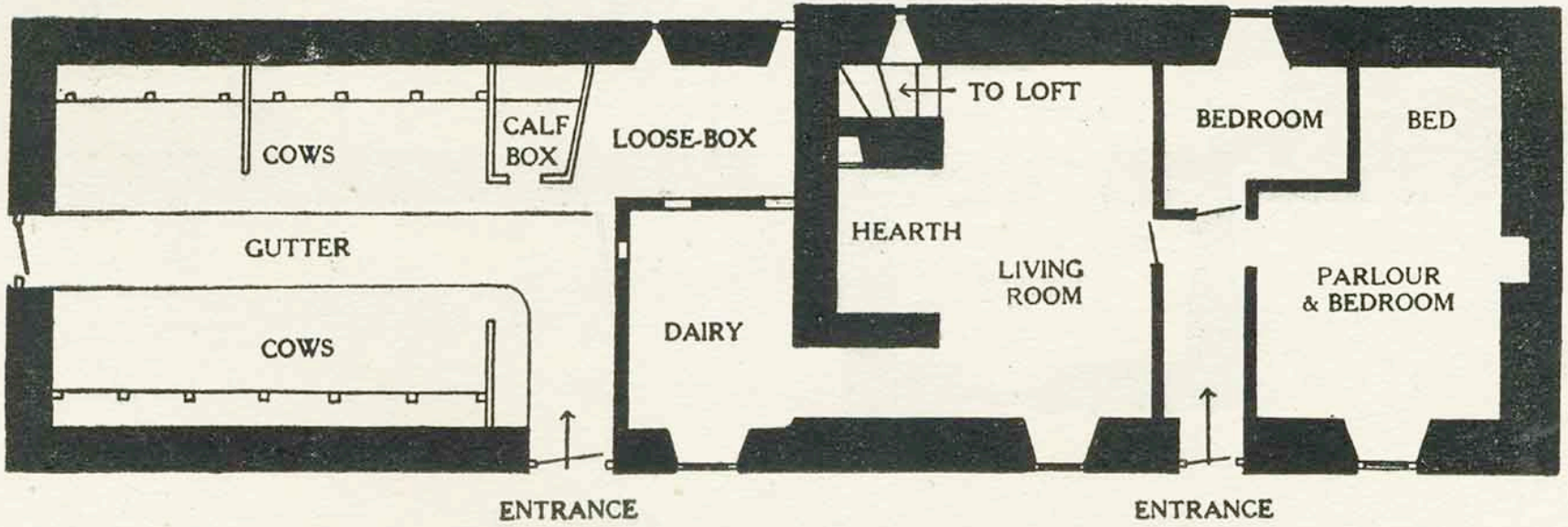


Fig. 9. Cwmeilath, Llansadwrn, Carmarthenshire : ground plan (length 75 ft.).



11 Lan, Llandeilo, Carmarthenshire

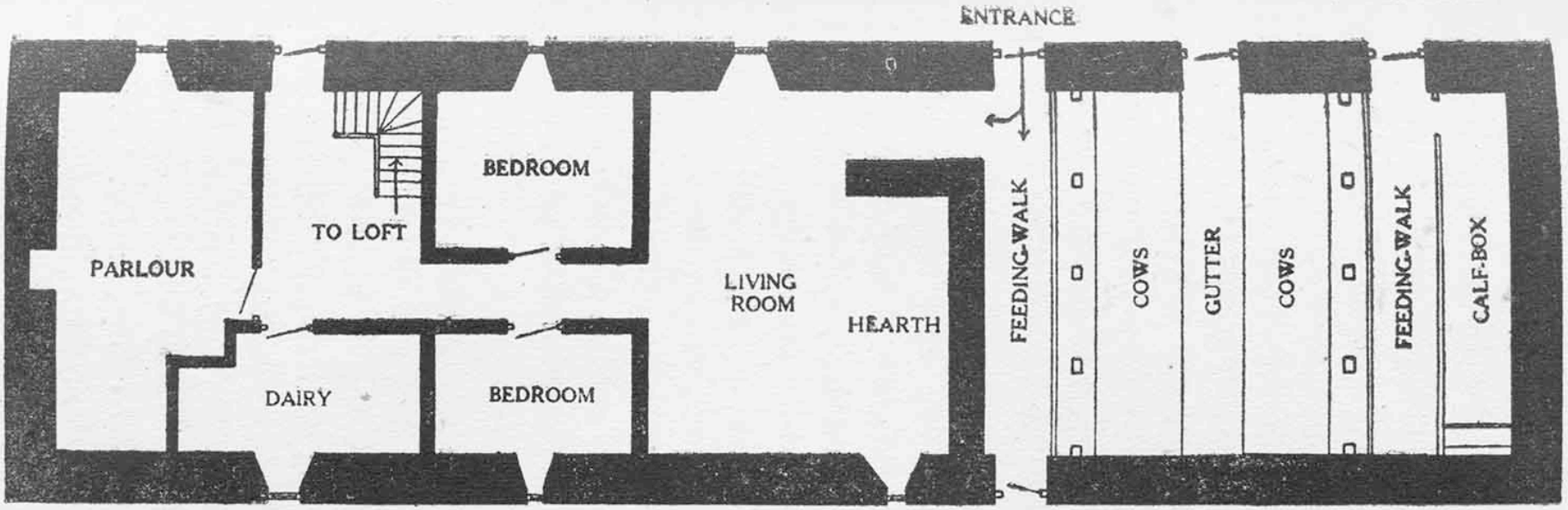


Fig. 15. Ty'ndolau, Llangeitho, Cardiganshire : ground plan (length 90 ft.).

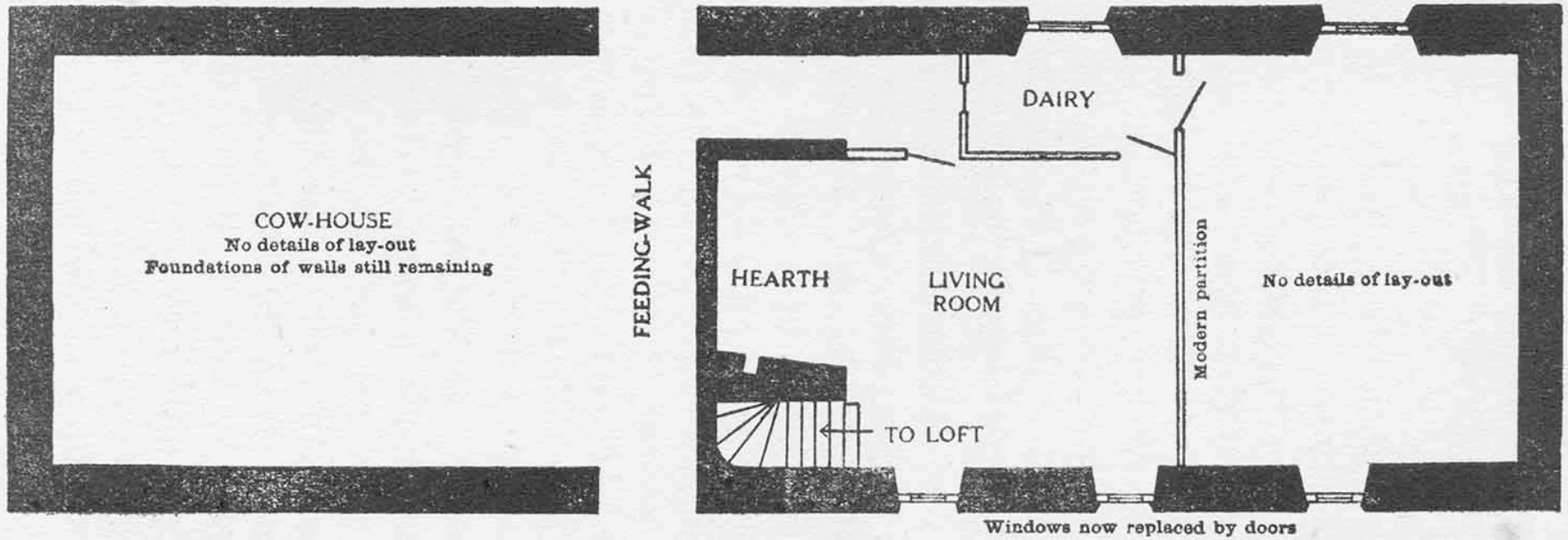


Fig. 16. Nannerth Canol, Rhayader, Radnorshire : ground plan (length 85 ft.).



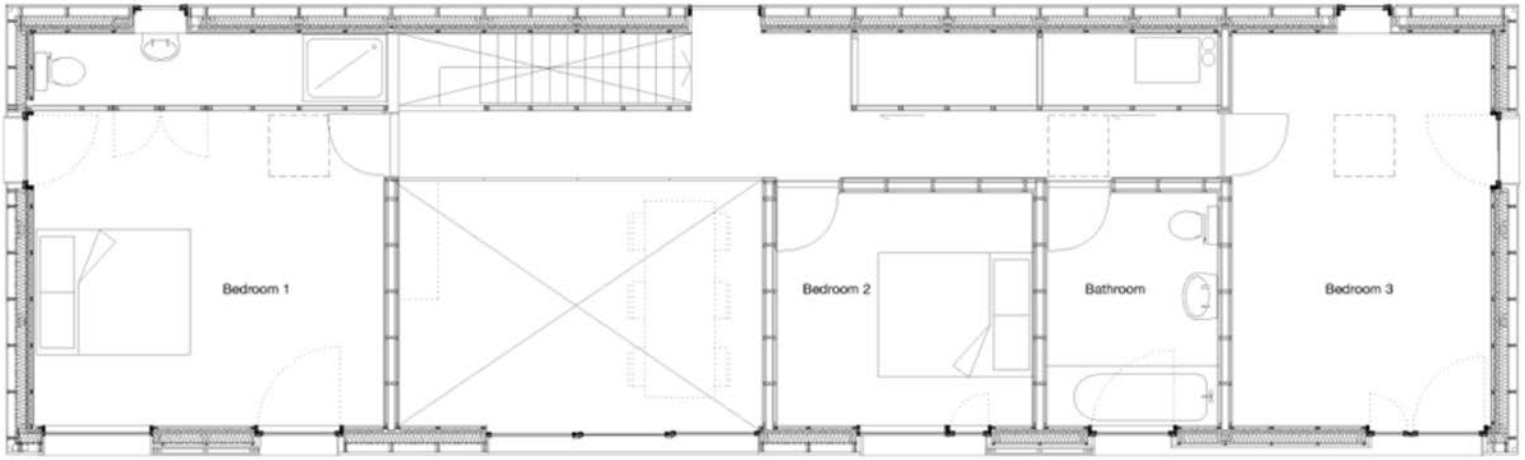
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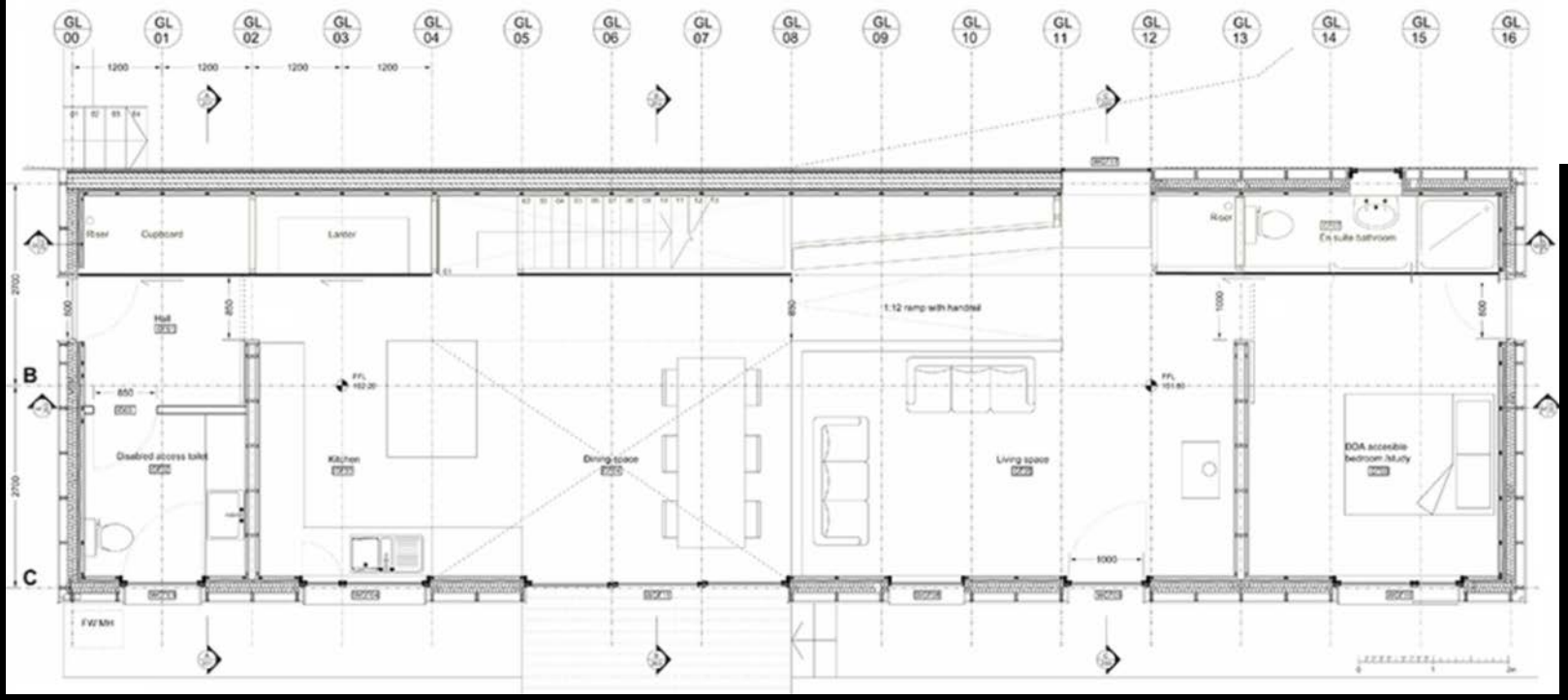
18 Ty'ndolau, Llangeitho, Cardiganshire

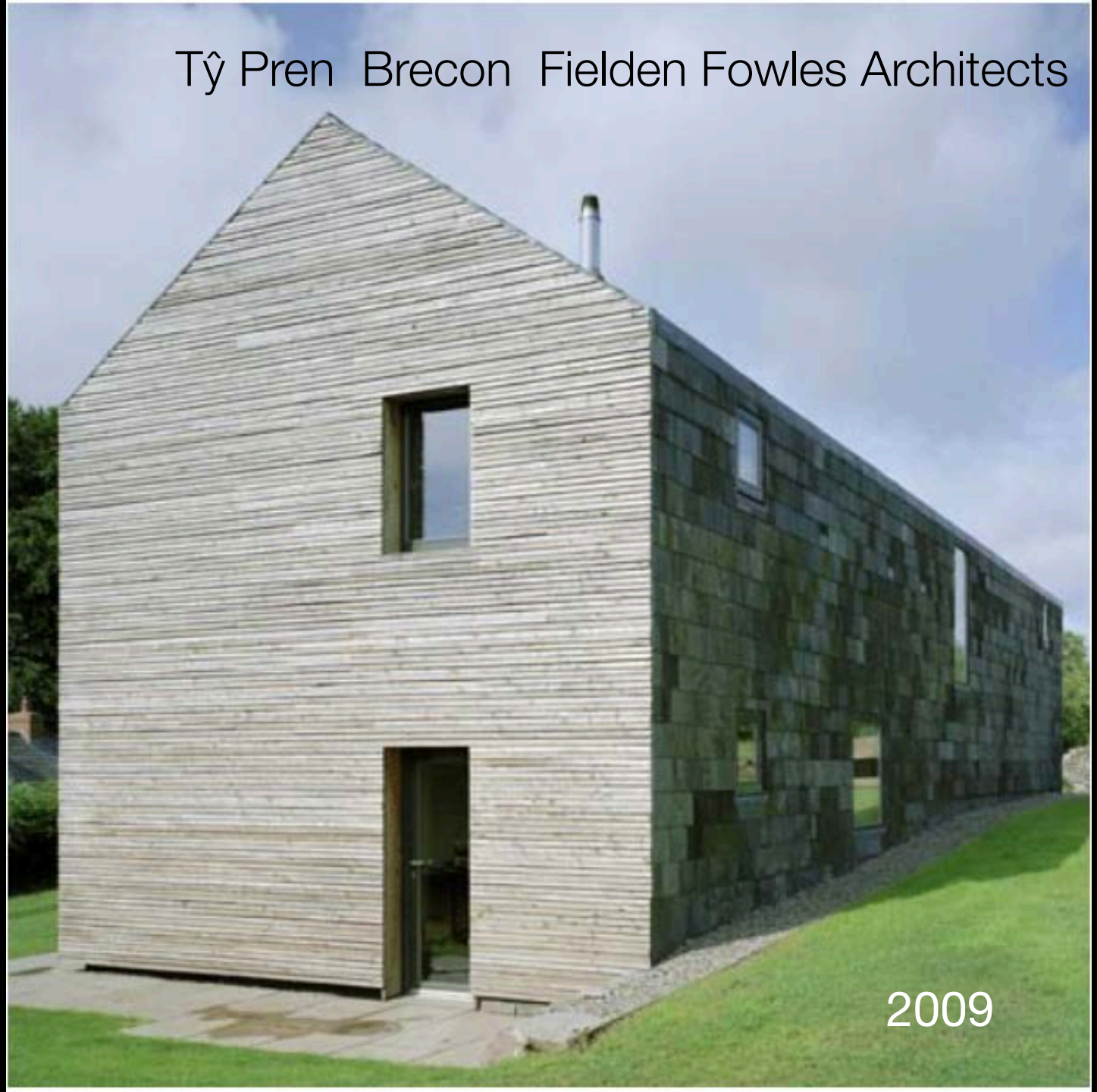
THE WELSH HOUSE



IORWERTH C. PEATE


Bedroom 1
Bedroom 2
Bathroom
Bedroom 3


GL 00
GL 01
GL 02
GL 03
GL 04
GL 05
GL 06
GL 07
GL 08
GL 09
GL 10
GL 11
GL 12
GL 13
GL 14
GL 15
GL 16
1200
1200
1200
1200
Riser
Cupboard
Larder
Riser
En-suite bathroom
Hall
1:12 ramp with handrail
FFL 162.20
FFL 161.60
Disabled access toilet
Kitchen
Dining space
Living space
DDA accesible bedroom /study
1000
FW/MH
B
C


Tŷ Pren Brecon Fielden Fowles Architects
2009



5

Tredegar House



1664-72









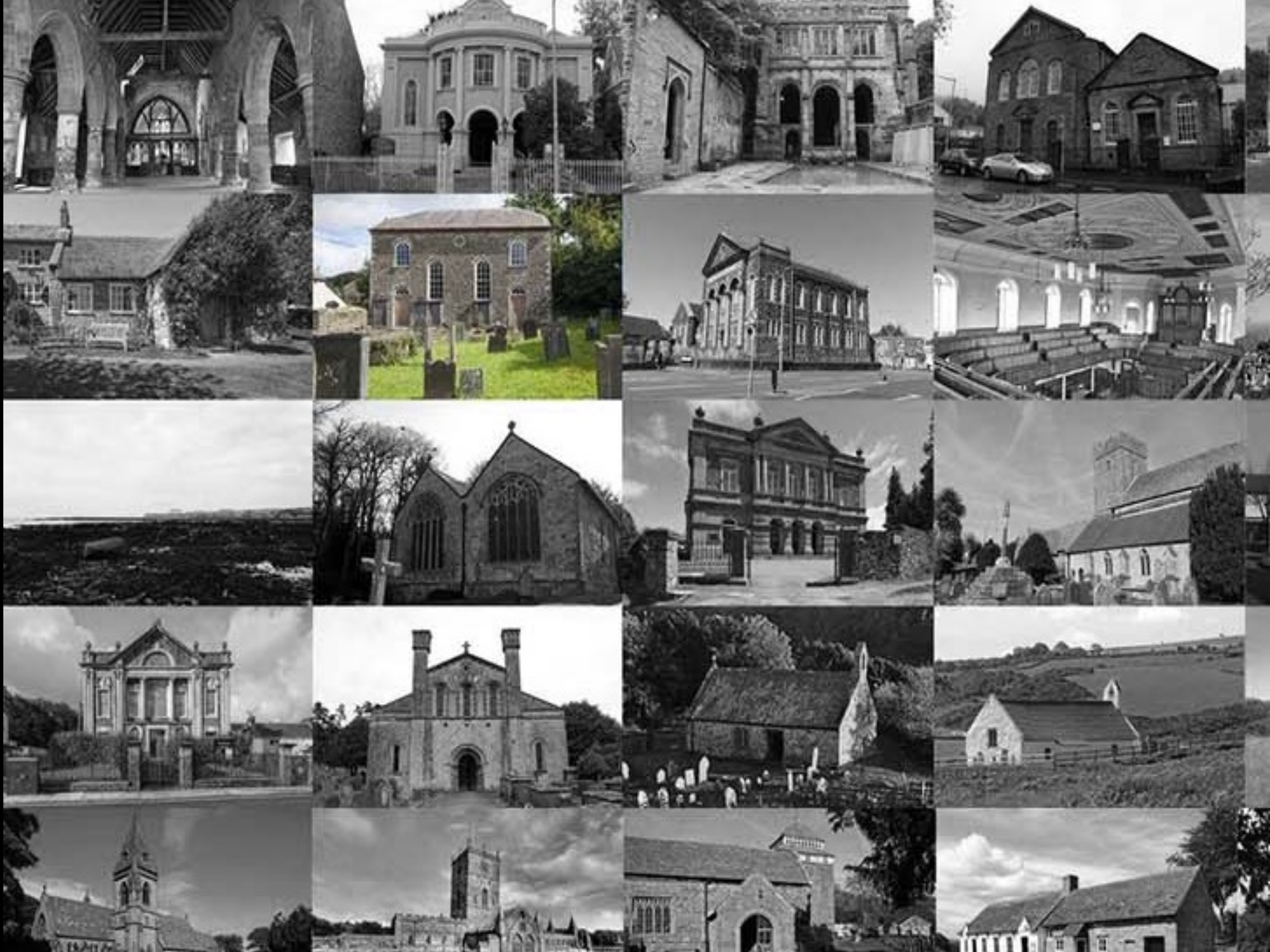

Llanerchaeron Aberaeron 1795

6

The Chapel








Hen Gapel Rhydowen Ceredigion 1834





Robie House Chicago 1910



Unity Temple Chicago 1906

7

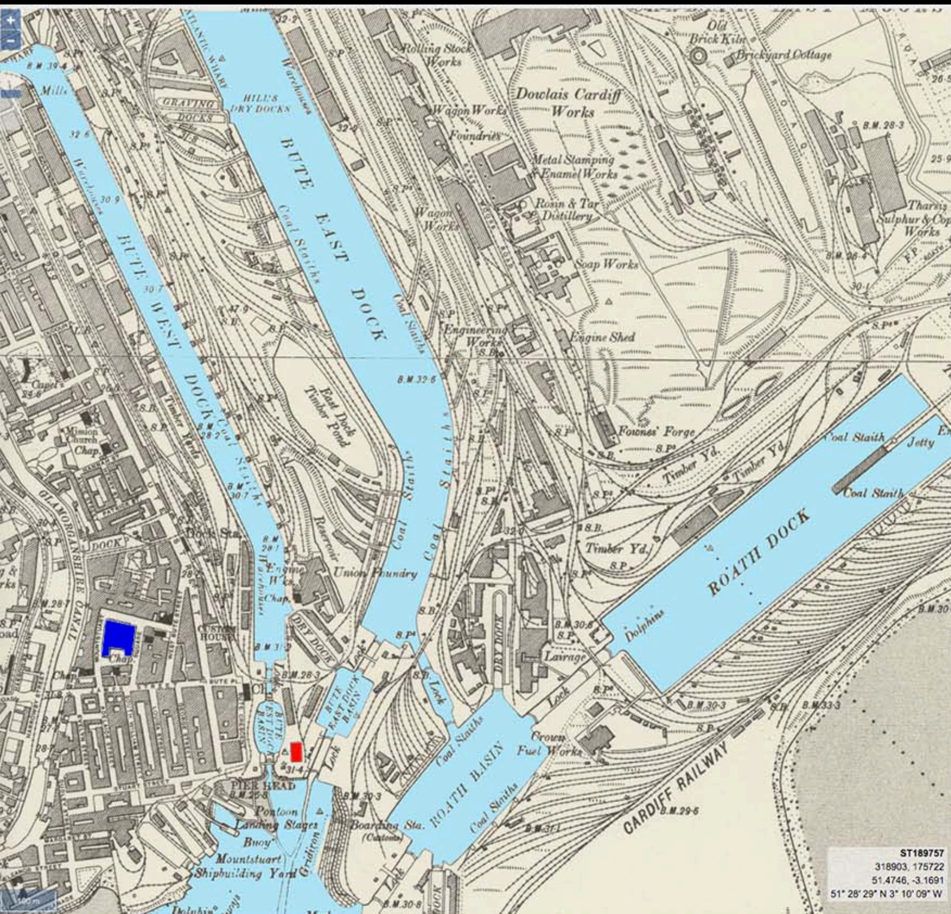
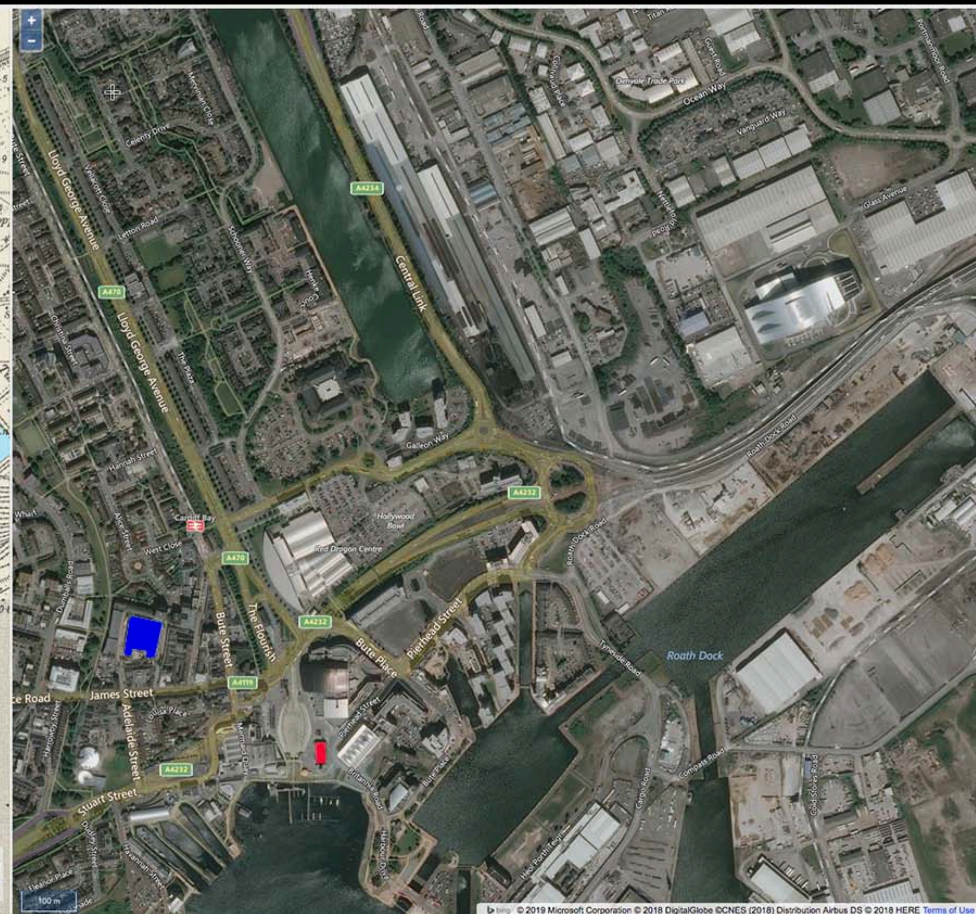
Coal Exchange



1888 Edwin Seward



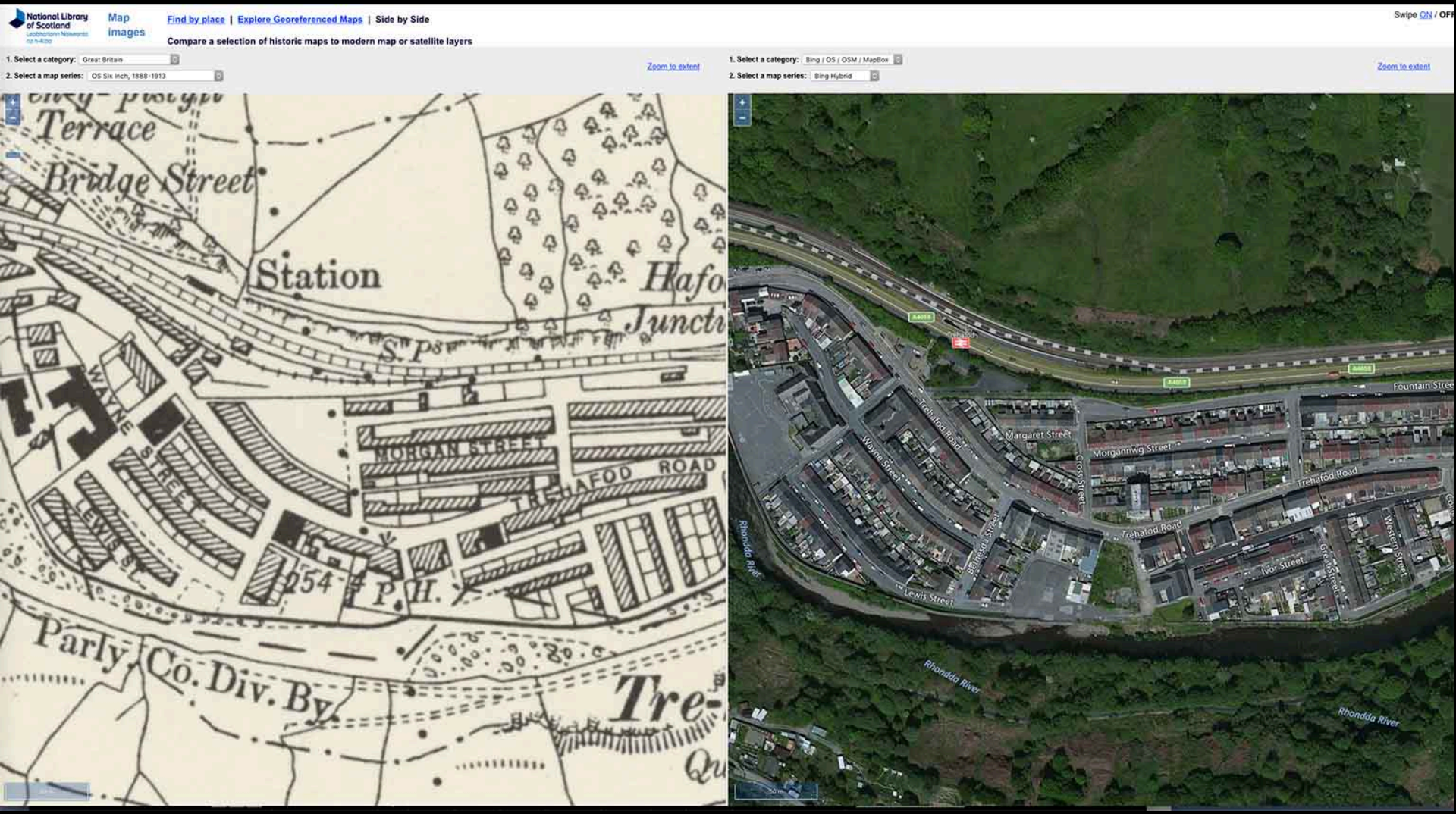

1897 William Frame


BUTE EAST DOCK
BUTE WEST DOCK
ROATH DOCK
ROATH BASIN
Dowlais Cardiff Works
Rolling Stock Works
Wagon Works
Foundries
Metal Stamping & Enamel Works
Rosin & Tar Distillery
Soap Works
Engineering Works
Engine Shed
Fownes' Forge
Timber Yd.
Coal Staith
Jetty
Dolphins
Union Foundry
Crown Fuel Works
CARDIFF RAILWAY
Brickyard Cottage
HILL'S DRY DOCKS
GRAVING DOCKS
Mission Church
PIER HEAD
Pontoon Landing Stages
Buoy
Mountstuart Shipbuilding Yard
Boarding Sta. (Customs)
Mud
ST189757
318903, 175722
51.4746, -3.1691
51° 28' 29" N 3° 10' 09" W

Lloyd George Avenue
Central Link
Roath Dock
Red Dragon Centre
Hollywood Bowl
Cardiff Bay
Bute Street
The Flourish
Bute Place
Pierhead Street
James Street
Adelaide Street
Stuart Street
Roath Dock Road
Ocean Way
Galleon Way
A4234
A470
A4232
A4119
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8

Industrial Cottage

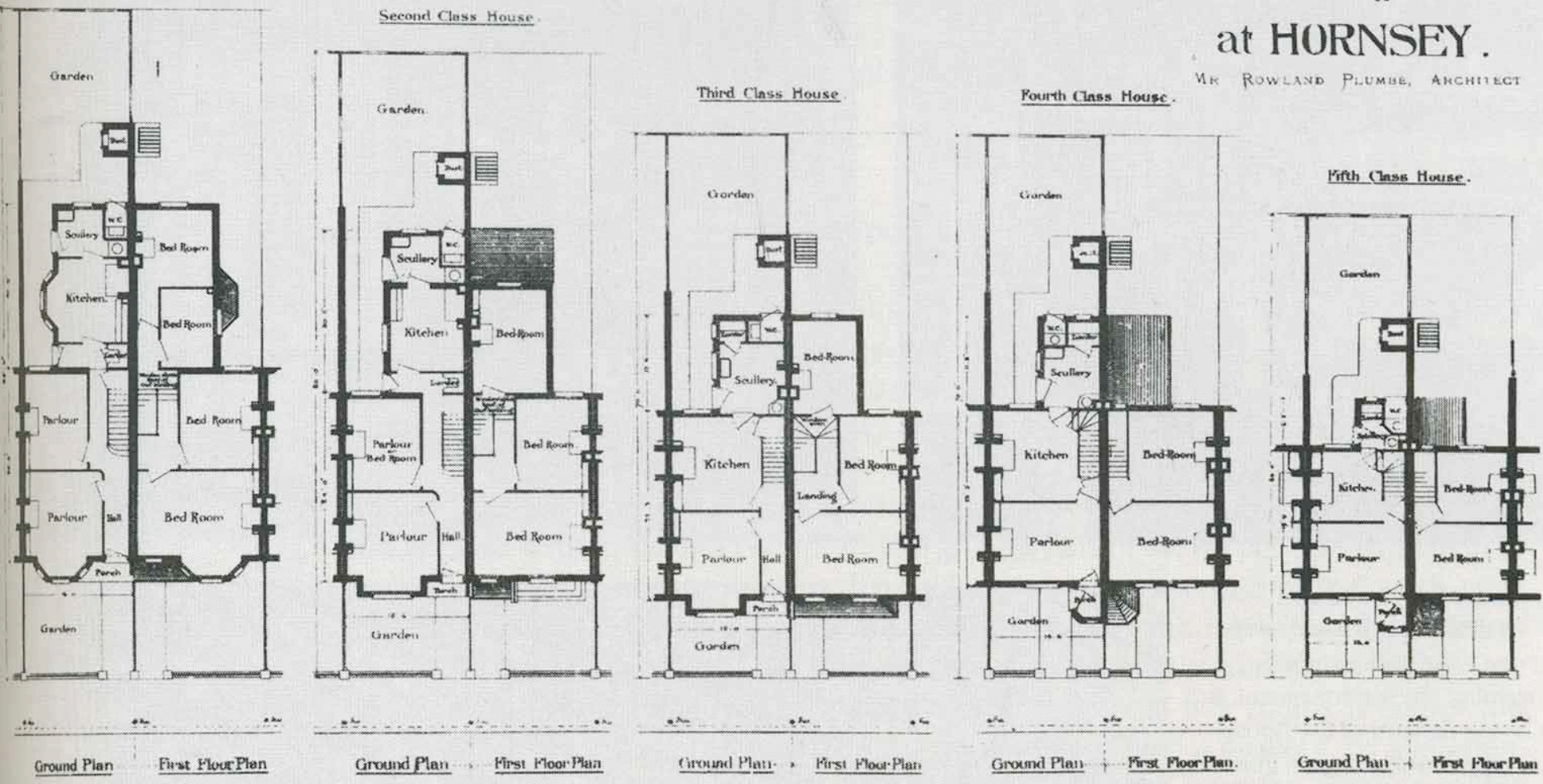



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Swipe ON / OFF
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2. Select a map series: OS Six Inch, 1888-1913
Zoom to extent
1. Select a category: Bing / OS / OSM / MapBox
2. Select a map series: Bing Hybrid
Zoom to extent
Terrace
Bridge Street
Station
Junctn
S. Ps
WAYNE STREET
LEWIS ST
MORGAN STREET
TREHAFOD ROAD
254
P.H.
Parly. Co. Div. By.
Tre-
Margaret Street
Morgannwg Street
Trehafod Road
Wayne Street
Cross Street
Lewis Street
Ivor Street
Western Street
Fountain Street
Rhondda River
A4053



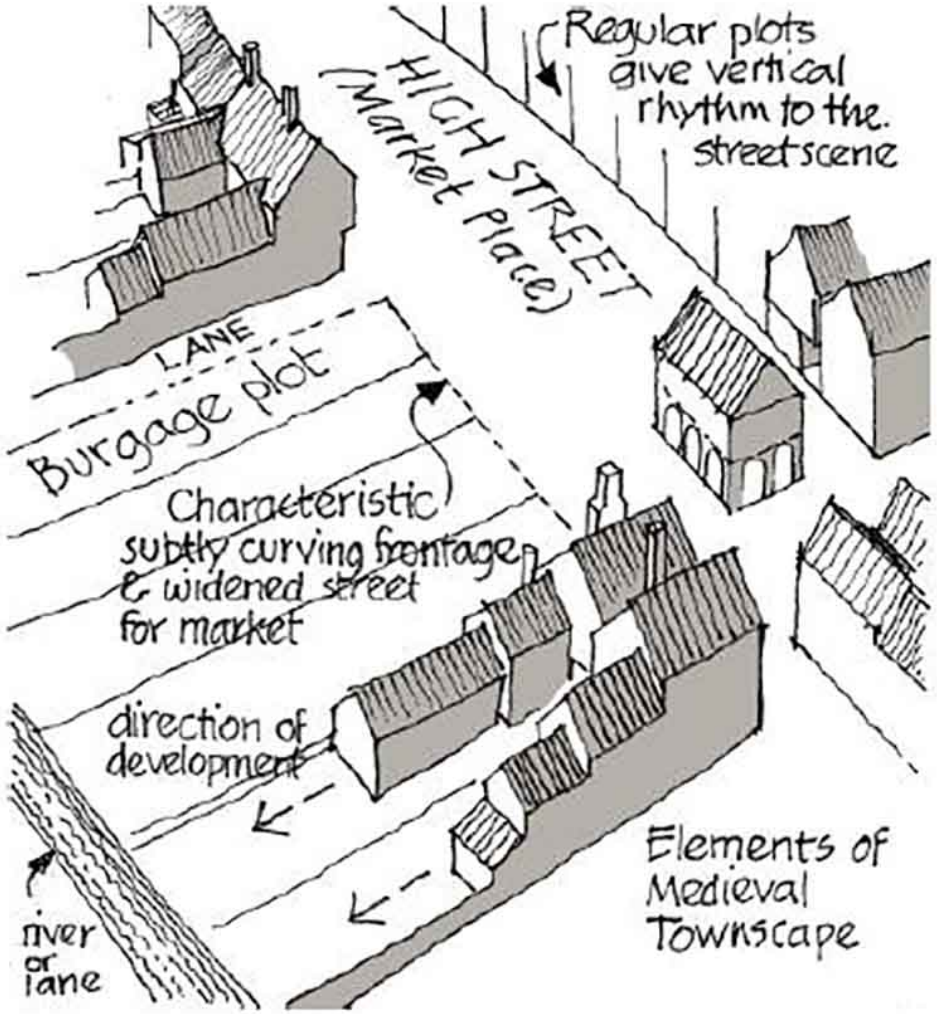
The Artizans, Labourers, & General Dwellings Estate at HORNSEY.

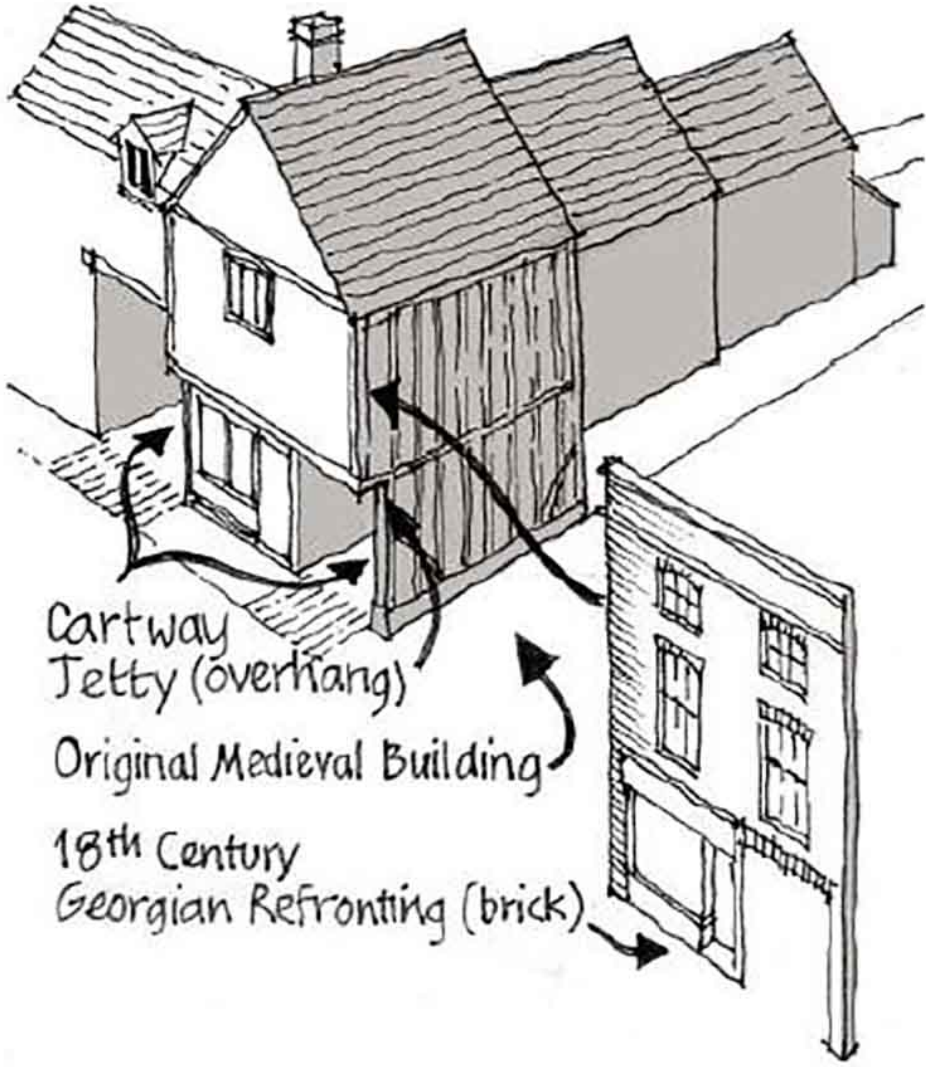
Mr Rowland Plumbe, Architect




Hill
Spring
L.B
The Elms
Whitehall
Lodge
St. Anns
Victoria Terrace
Spring
Cricket Ground
Quarry
Lane
GREEN
Devon House
Golden Hall
Union Workhouse
Mill Pond
Golden Cottages
Golden House
Kingsbridge House
Boat House
Quarry
Bengal Villas
Common Lake
LOWER COMMON
Station
ORANGE GARDENS
Grove Bridge
Mill Race
Grove Quarry
GROVE
Underdown
Ashgrove
Bartonhall
St. Daniels
SM978022


Golden Brake
Golden Lane
Woodbine Terrace
Northgate Street
The Green
Pembroke Castle
Pembroke
Westgate Hill
Common Road
Main Street
Common Park
Orange Way
Well Hill
St Daniel's Hill
B4318
A4139
A4075


Regular plots give vertical rhythm to the street scene
HIGH STREET (Market Place)
LANE
Burgage plot
Characteristic subtly curving frontage & widened street for market
direction of development
river or lane
Elements of Medieval Townscape


Cartway
Jetty (overhang)
Original Medieval Building
18th Century
Georgian Refronting (brick)

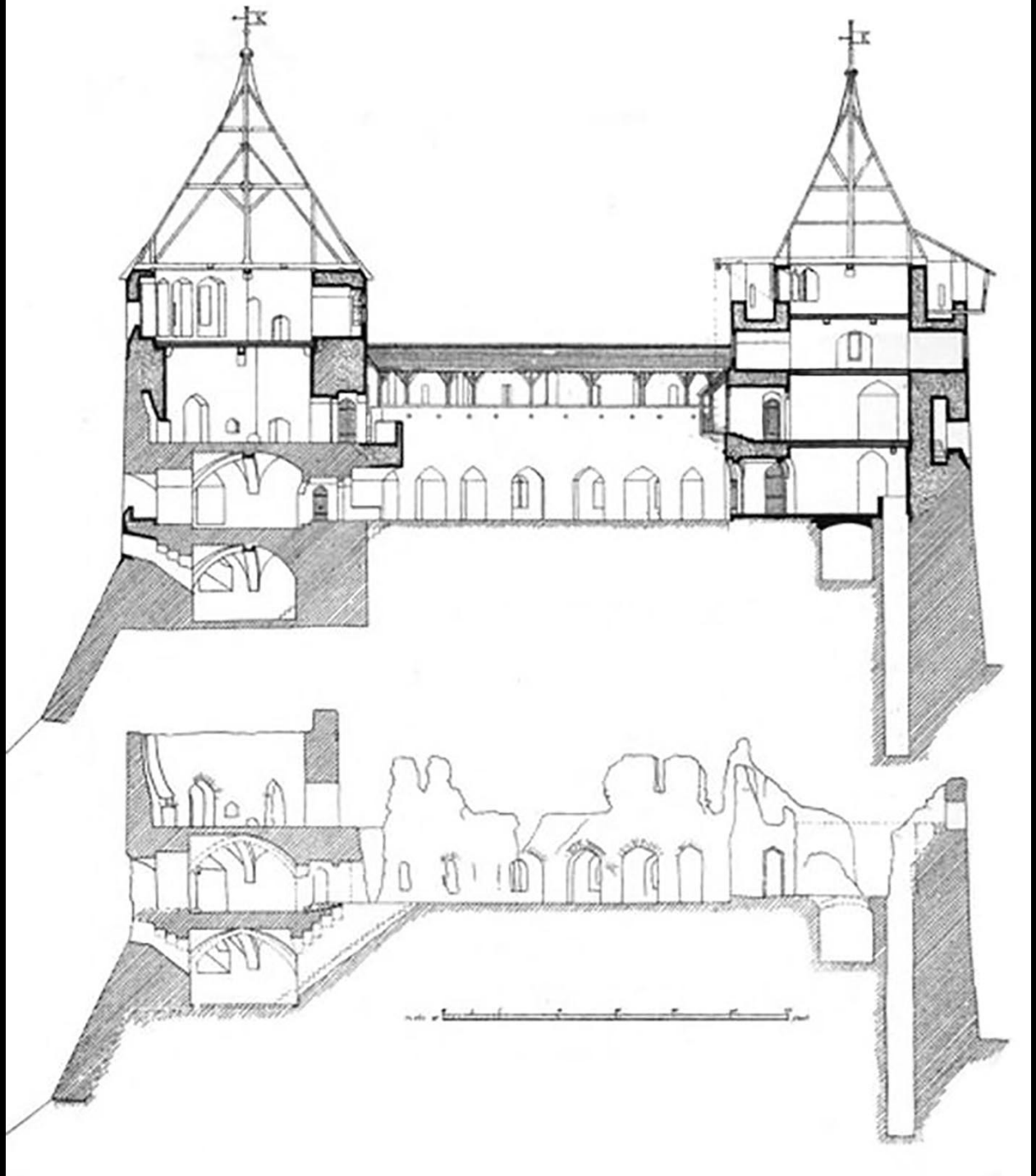
9

Castell Coch



1875-79 William Burgess









Schloss Neuschwanstein Schwangau Bavaria 1869-72

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National Library


1909-15 Sidney Greenslade 1934-7 Charles Holden



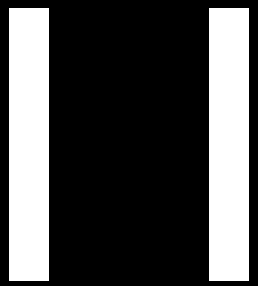
1906 Lanchester Stewart & Rickards







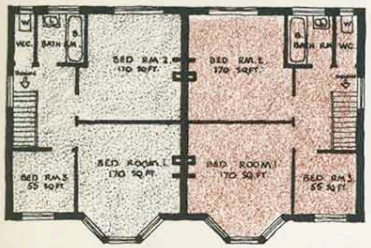
1937-40 (clock tower completed 1963) Thomas Howitt



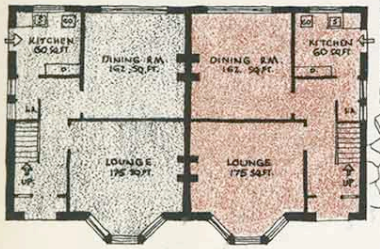
Semi-detached



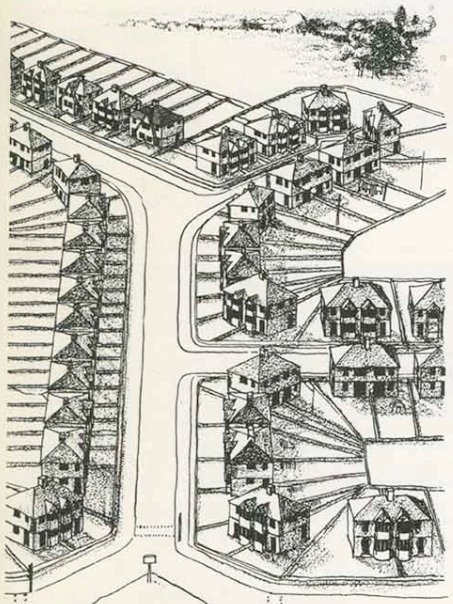
A FAMILIAR 20TH CEN



1ST. FLOOR PLAN $\frac{1}{16}" = 1'-0"$

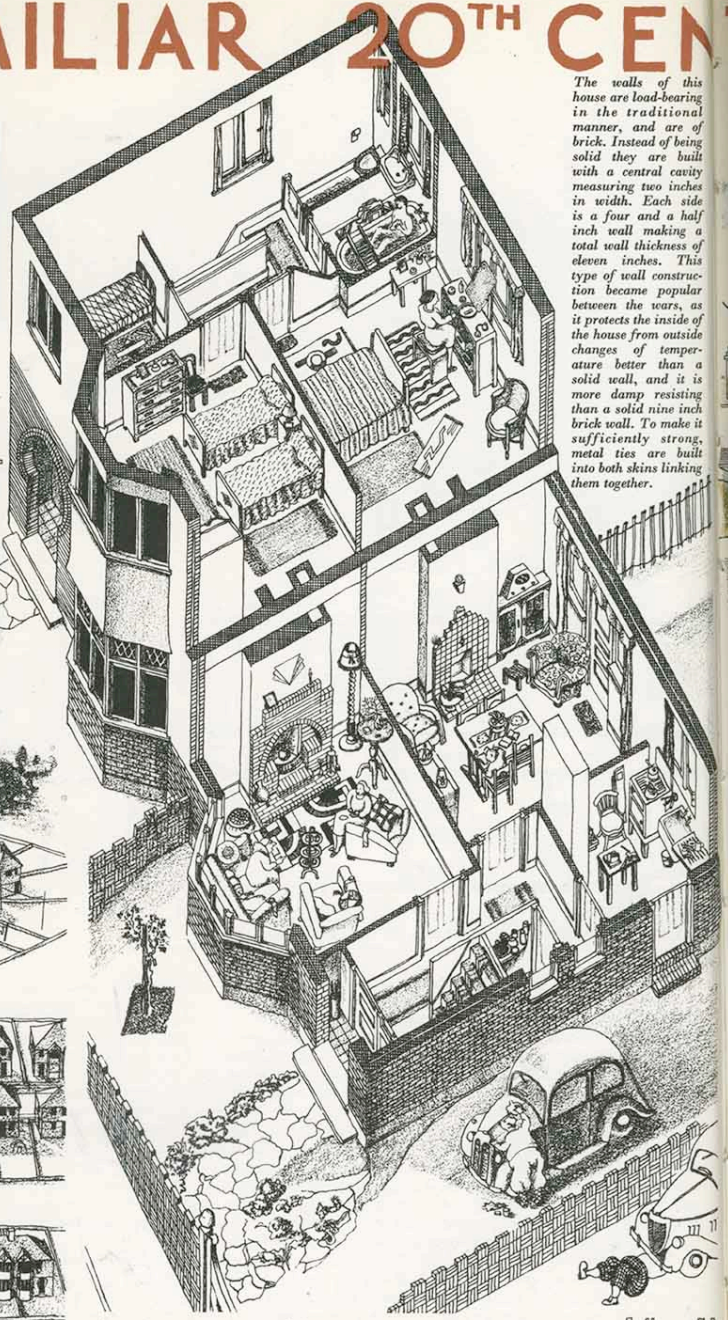


GROUND FLOOR $\frac{1}{16}" = 1'-0"$



TOWN OR COUNTRY?

The walls of this house are load-bearing in the traditional manner, and are of brick. Instead of being solid they are built with a central cavity measuring two inches in width. Each side is a four and a half inch wall making a total wall thickness of eleven inches. This type of wall construction became popular between the wars, as it protects the inside of the house from outside changes of temperature better than a solid wall, and it is more damp resisting than a solid nine inch brick wall. To make it sufficiently strong, metal ties are built into both skins linking them together.



AXONOMETRIC $\frac{1}{8}" = 1'-0"$


Swansea


Holyhead

I2

Portmeirion



1925-75 Clough Wiliams Ellis









1954 Clough Wiliams Ellis

13

Villa Marina Llandudno




1936 Harry Weedon



1938 Harry Weedon RIBApix



Universum Cinema 1928 Erich Mendelsohn

14

Brynmawr Rubber Factory




Image © 2018 The GeoInformation Group

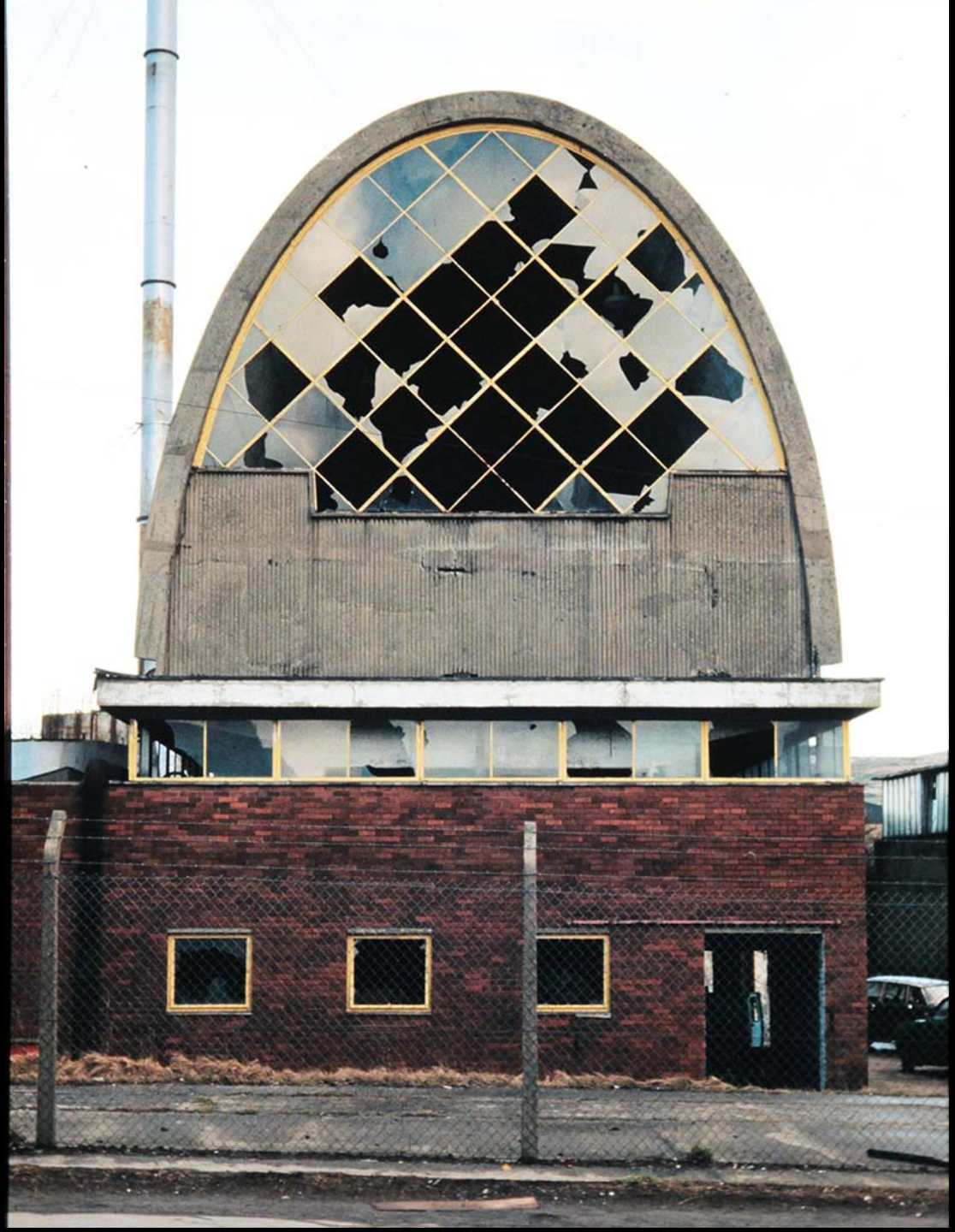


1946-51 Architects Co-partnership













15

Gaer Estate Newport



1948-51 Johnson Blackett Newport CBC







Berlin's flat-roofed Hufeisensiedlung – a history of cities in 50 buildings, day 16



▲ The Berlin-Britz housing estate, better known after the central crescent as the Hufeisensiedlung, or 'Horseshoe Estate'. Photograph: Alamy

1925-33 Bruno Taut

This horseshoe crescent and its 'un-German' roof epitomised modernist values – in opposition to the folkish pitched-roof fantasies loved by the Nazis

most viewed






1978 McCormac Jamieson & Prichard

16

St Fagans

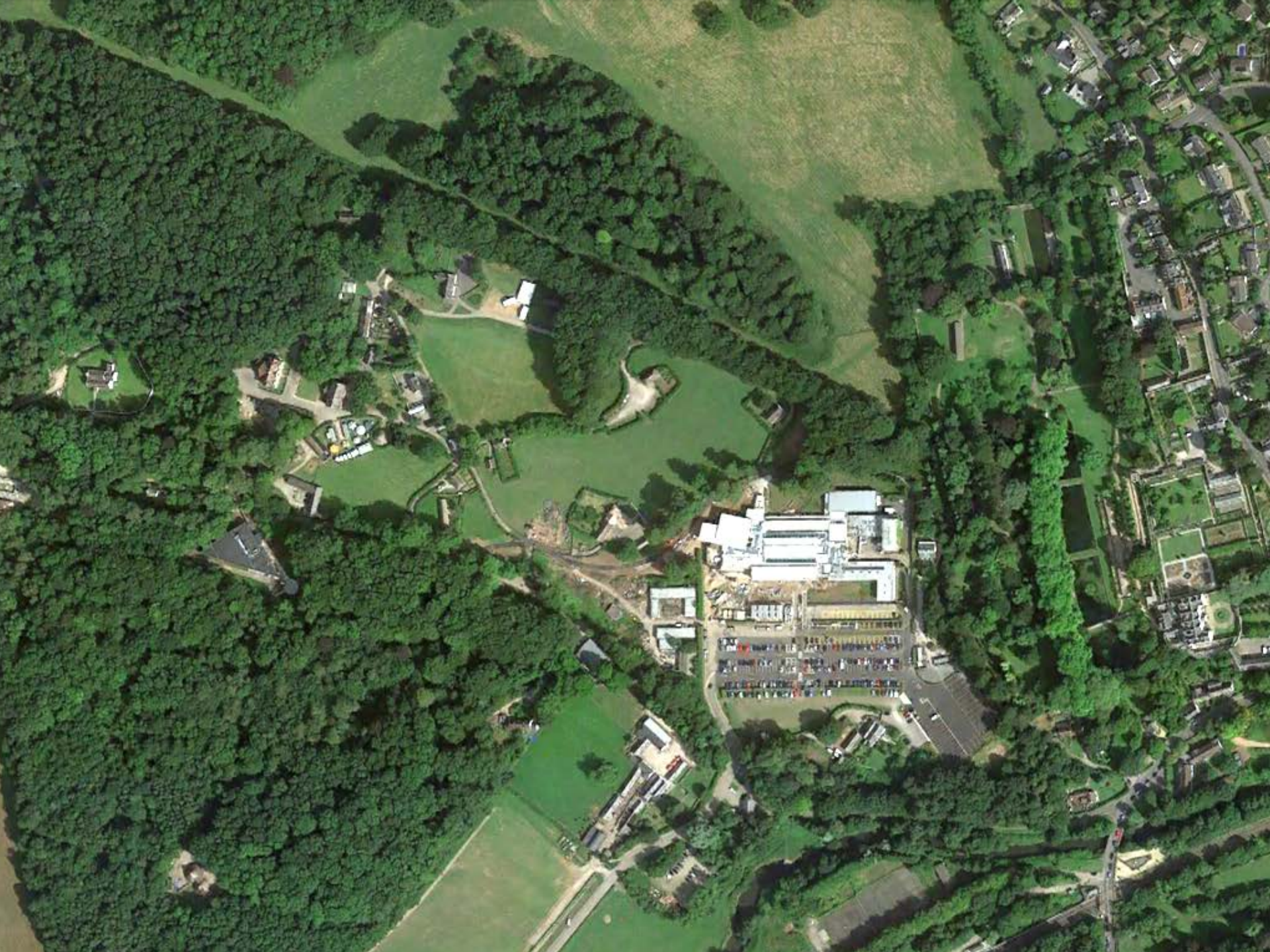


1968-76 Percy Thomas Partnership Dale Owen



1970 Percy Tomas Partnership Dale Owen


1957 Interbau Berlin Walter Gropius/TAC



17

Severn Bridge



1966 Mott Hay & Anderson Freeman Fox Percy Thomas

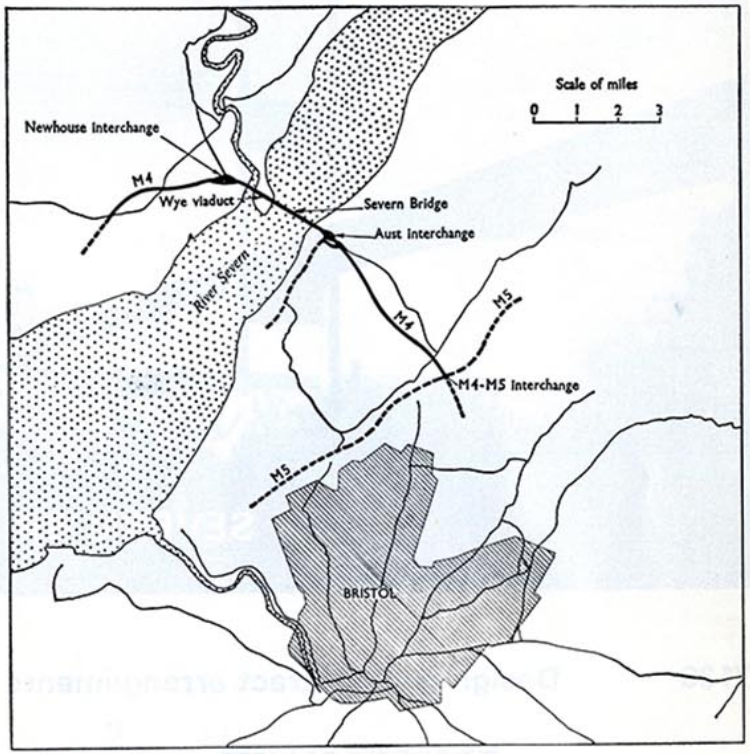


Fig. 1. Map showing bridge location

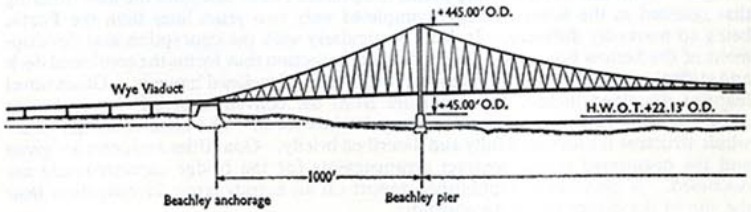


Fig. 2. General arrangement

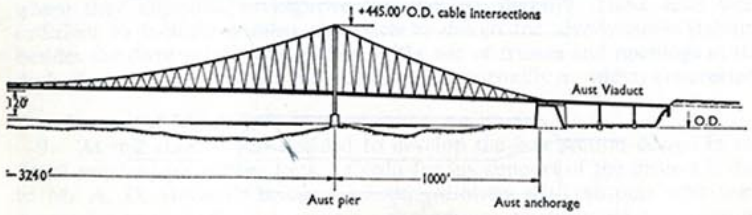
Introduction

The map of the Severn Estuary (Fig. 1) shows the location of the bridge and its associated motorway system. Before its construction the desirability of a permanent roadway crossing downstream of the bridge at Gloucester, 30 miles away, had long been apparent in both the local and the national contexts. The line selected, just above the confluence of the Severn with its tributary, the Wye, was close to the site of a long-established ferry crossing from Aust on the east bank of the Severn to the Beachley peninsula separating the two rivers. Almost exactly a mile, this was the narrowest stretch of the Severn for some miles upstream or down, although the line required a major bridge over the Wye as well.

2. An account of early proposals and counter proposals for bridging the estuary is given by Rolt in a brochure published to mark the opening of the bridge.[1] It was following an initiative by the Gloucestershire County Council, that the Ministry of Transport, under the 1945 Trunk Roads Act, adopted the proposal for a suspension bridge at the Aust–Beachley site as part of the proposed M4 motorway. As well as the Wye Bridge and toll collection arrangements on the east bank of the Severn, the project was to include 3½ miles of this motorway on the west side and 4½ miles on the east side extending to a junction with the Birmingham to Bristol motorway, the M5.

3. At the Ministry's direction Freeman Fox & Partners were associated with Mott, Hay & Anderson who had for some years been retained by the County Council to make proposals for a crossing of the estuary, and the two firms became joint engineers for the project. The Author was appointed to take charge of their joint office in 1949.

4. An important factor in favour of the Beachley–Aust site and a determining factor in the exact location of the bridge was the presence of half-tide outcrops of limestone rock in the river bed approximately 500 ft and 1500 ft from the east bank which would form convenient positions for the anchorage and tower pier of a suspension bridge on that side of the river. The navigation authorities required a clear opening of at least 3000 ft and a clearance of 120 ft above high water, but even without this stipulation a suspension bridge was the obvious solution. With the east pier founded on its rock outcrop, a











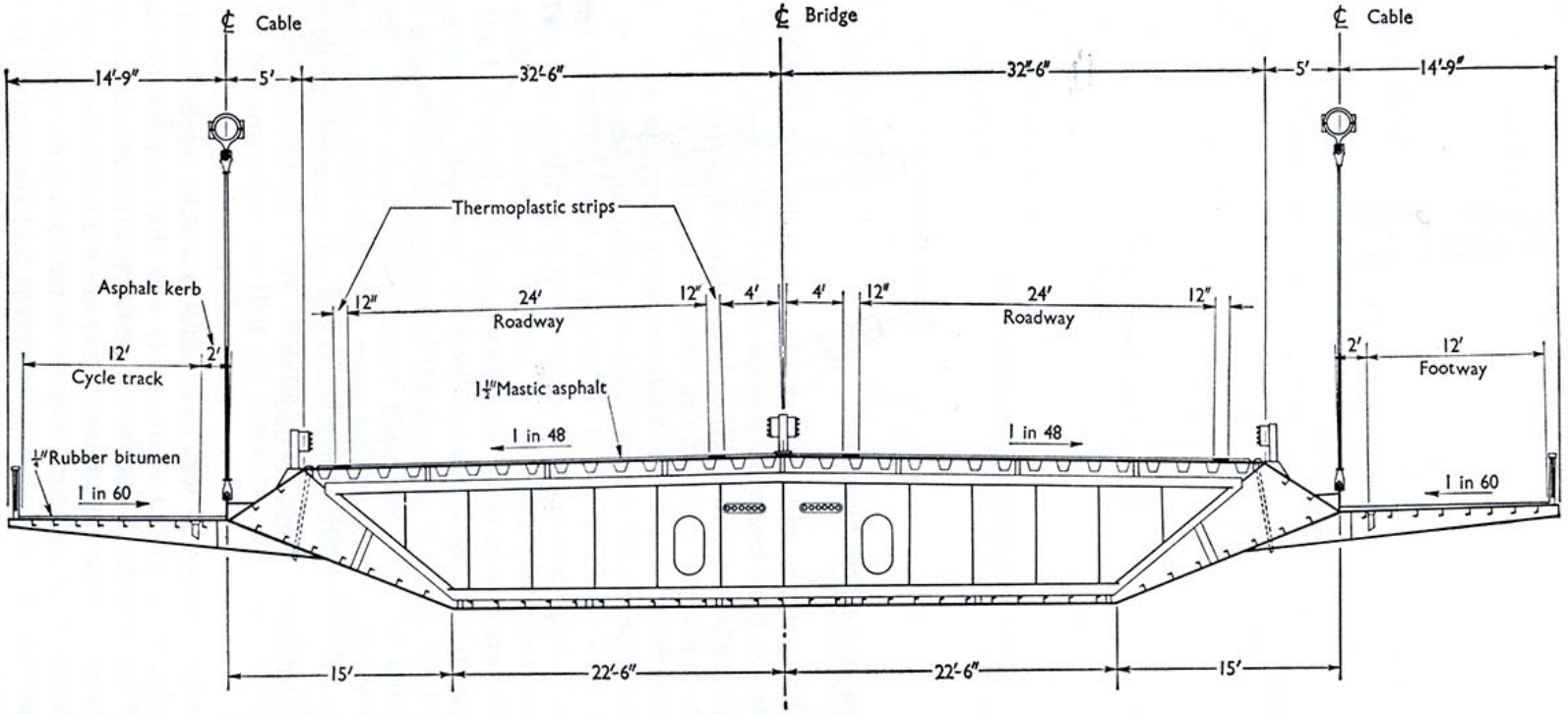


Fig. 23. Cross section through deck



18

Cardiff Bay

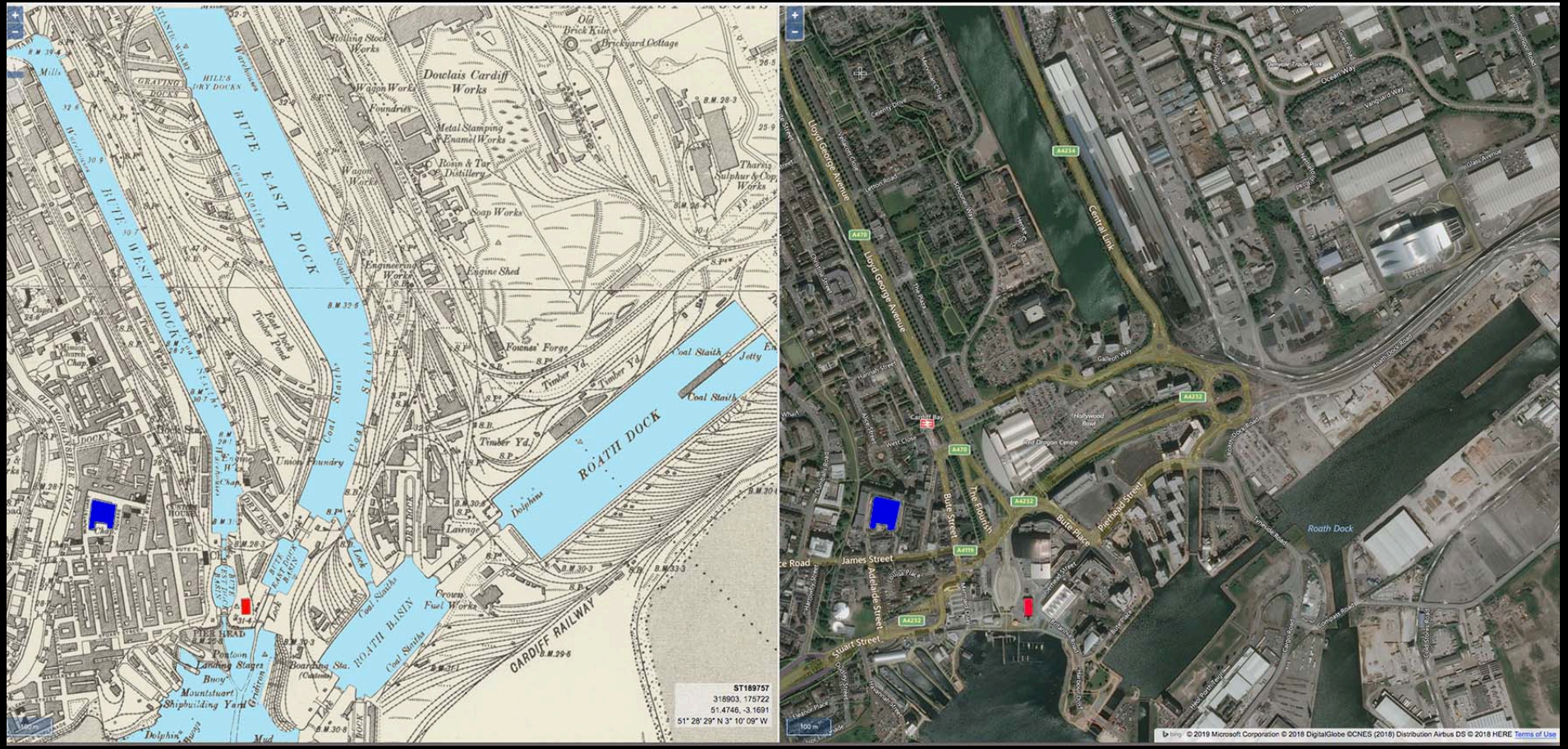


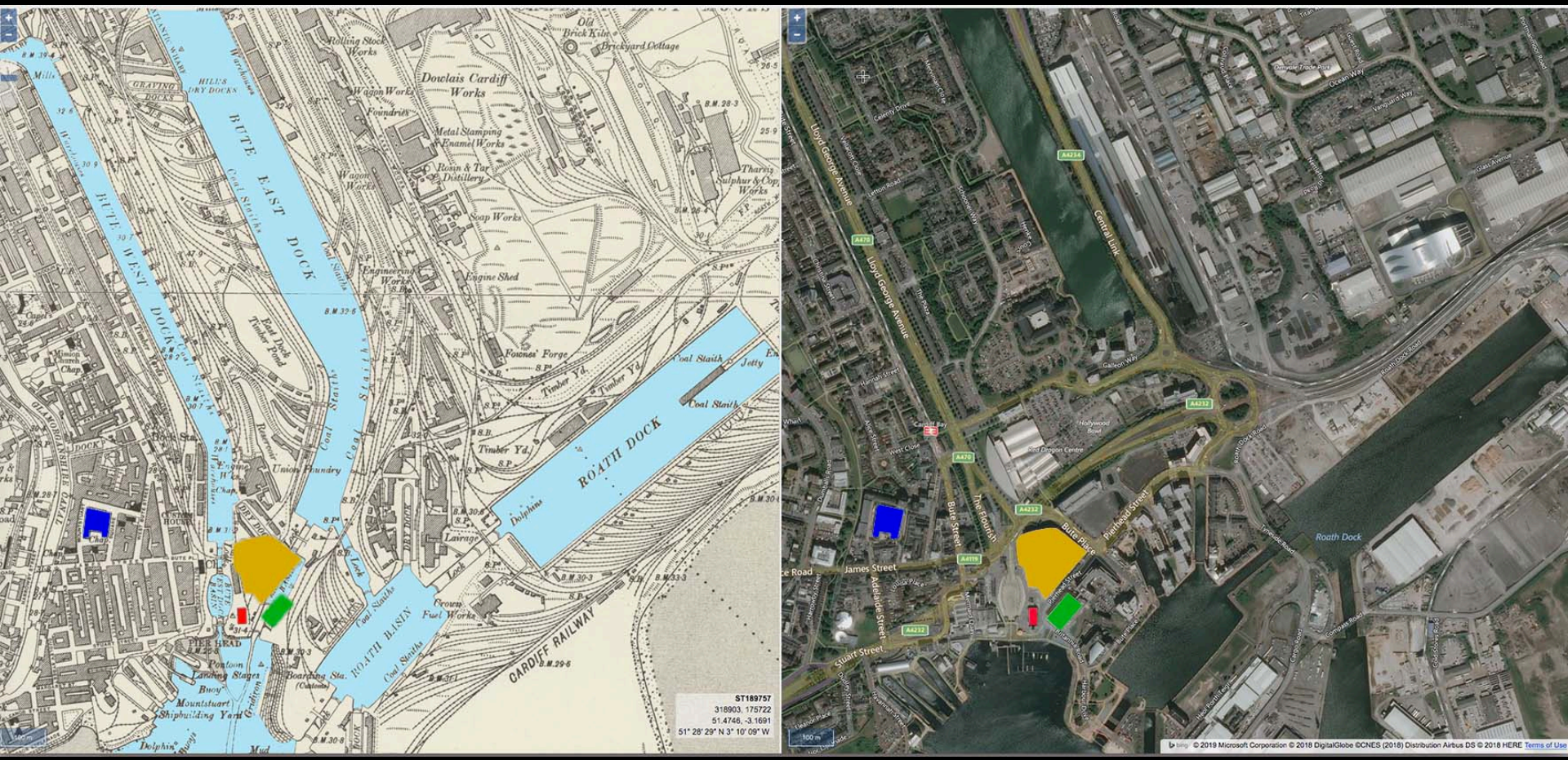


2004 Percy Thomas Partneship Jonathan Adams



2006 Richard Rogers


BUTE EAST DOCK
BUTE WEST DOCK
ROATH DOCK
ROATH BASIN
Dowlais Cardiff Works
Rolling Stock Works
Wagon Works
Foundries
Metal Stamping & Enamel Works
Rosin & Tar Distillery
Soap Works
Engineering Works
Engine Shed
Forges
Timber Yd.
Coal Staith
Jetty
Union Foundry
Crown Fuel Works
Graving Docks
Pontoon
Landing Stages
Buoy
Boarding Sta.
Mountstuart Shipbuilding Yard
Dolphins
Mud
CARDIFF RAILWAY
Lloyd George Avenue
Central Link
Bute Street
James Street
Adelaide Street
Stuart Street
Pierhead Street
Roath Dock
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51.4746, -3.1691
51° 28' 29" N 3° 10' 09" W
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BUTE EAST DOCK
BUTE WEST DOCK
ROATH DOCK
ROATH BASIN
Dowlais Cardiff Works
Rolling Stock Works
Wagon Works
Foundries
Metal Stamping & Enamel Works
Rosin & Tar Distillery
Soap Works
Engineering Works
Engine Shed
Forges
Timber Yd.
Coal Staith
Jetty
Union Foundry
Lairage
Crown Fuel Works
CARDIFF RAILWAY
Pontoon Landing Stages
Boarding Sta. (Customs)
Mountstuart Shipbuilding Yard
Graving Docks
Hills Dry Docks
Old Brick Kiln
Brickyard Cottage
Tharsis Sulphur & Cop. Works
Lloyd George Avenue
Central Link
Bute Place
Bute Street
Adelaide Street
James Street
Stuart Street
Roath Dock
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51.4746, -3.1691
51° 28' 29" N 3° 10' 09" W
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19

WISE CAT Machynlleth



2010 Pat Borer David Lea



20

BBC Central Square Cardiff

2020 Foster + Partners

New £120m headquarters for BBC Wales in the centre of the Cardiff gets the go ahead

After more than a year of negotiations broadcaster BBC has signed off an investment to build a new HQ in Wales at Cardiff's Central Square regeneration scheme

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16:00, 16 NOV 2015 | UPDATED 11:05, 17 NOV 2015

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RECOMMENDED


First images inside BBC Wales' new £120m headquarters


First look at how new BBC Wales' new multi-million pound HQ in central Cardiff will look

Bloomberg's European HQ named UK's best new building

10 October 2018

The Royal Institute of British Architects (RIBA) has this evening (10 October 2018) awarded the 2018 RIBA Stirling Prize to **Bloomberg, London by Foster + Partners.** The prestigious annual prize is awarded to the UK's best new building.



Image: Bloomberg's European HQ © Nigel Young, Foster + Partners

Bloomberg's pioneering new European HQ has been credited as the world's most sustainable office and is thought to be the largest stone building in the City of London since St Paul's Cathedral.

Bloomberg HQ: a £1bn building that looks like a regional department store

Bloomberg's new European headquarters may be the most sustainable office building in the world, but Norman Foster's design is chubby and prosaic



▲ The green stuff ... Cristina Iglesias's water feature at the base of Bloomberg HQ resembles a fetid swamp. Photograph: Guy Bell/Rex/Shutterstock



Oliver Wainwright

@ollywainwright

Wed 25 Oct 2017 14.35 BST

280 378

"It took almost a decade to build this building," says Michael Bloomberg, former mayor of New York and head of the Bloomberg media empire, standing beneath the twinkling LED-studded ceiling of his new £1bn London headquarters. "Some people say it's because we had a billionaire who wanted to be an architect, working with an architect who wanted to be a billionaire."

The marriage of Bloomberg and Norman Foster - the only architect to have featured regularly on the Sunday Times Rich List, and to have renounced his seat in the Lords to protect his non-dom tax status - is a formidable combination, beyond just the might of their offshore bank accounts. Together they have created what purports to be the world's most sustainable office building, and certainly one of the most expensive.

most viewed


Live Brighton 0-1 Liverpool, Leicester 1-2 Southampton and more - as it happened


How millennials have put a spoke in the wheels of Britain's bicycle shops


The Rock says Daily Star fabricated 'snowflake' criticism


UK forecast to experience freezing temperatures at end of January


Blind date: 'I left my knickers at a house party we crashed'

